

Botond Roska MD, PhD,
Friedrich Miescher Institute
Basel, Switzerland

Education

2002-2005 Harvard Junior Fellow, Department of Genetics Harvard Medical School and Department of Molecular and Cellular Biology Harvard University, Field: Genetics and Neuroscience, Mentors: Connie Cepko and Markus Meister.

1997-2002 Graduate student, Division of Neurobiology, Department of Molecular and Cell Biology at University of California Berkeley, PhD degree (2002), Field: Neuroscience, Mentor: Frank Werblin

1995-1997 Postdoctoral Fellow, Division of Neurobiology, Department of Molecular and Cell Biology at University of California Berkeley, Field: Neuroscience, Mentor: Frank Werblin

1989-1995 Medical student, Semmelweis University of Medicine, Budapest, Hungary, MD degree (1995), Field: Medicine

Positions

2005-today Junior Group Leader, Friedrich Miescher Institute, Basel, Switzerland.

Honours

1. Fulbright Fellow (1997)
2. Bearden Memorial Award for biophysics (2002)
2. Human Frontiers Science Program Short Term Fellow (2001)
3. Harvard Society Fellow (2001-2005)
4. Human Frontiers Science Program Young Investigator (2003-2006)
5. Marie Curie Excellence Grant of the European Union (2006-2010)
6. Member of Frontiers in Genetics network, National Center of Competence in Research, Switzerland (2005)

Consultant activity

1. TeraOps, Inc (1998-2002)
2. Allergan, Inc. (2000)
3. Axon Instruments, Inc. (2000)

5. Selected publications

1. Lagali, P.S., Balya, D., Awatramani, G.B., Muench, M.A., Kim, D.S., Busskamp, V., Cepko, C.L., Roska, B. (2008) Light-activated channels targeted to ON bipolar cells restore visual function in retinal degeneration.

Nature Neuroscience 11(6):667-75

2. Viney TJ, Balint K, Hillier D, Siegert S, Boldogkoi Z, Enquist LW, Meister M, Cepko CL, Roska B. (2007) Local retinal circuits of melanopsin-containing ganglion cells identified by transsynaptic viral tracing. **Current Biology** 5;17(11):981-8.

3. Werblin F, Roska B. (2007) The movies in our eyes. **Scientific American**. Apr; 296 (4):72-9

4. Roska, B; Werblin, FS. (2003) Global Shifts in Natural Scenes Block Spiking in Specific Ganglion Cell Types. **Nature Neuroscience** 6(6):600-8

5. Roska, B; Werblin, FS. (2001) Vertical Interactions across Ten Parallel Stacked Representations in the Mammalian Retina. **Nature**, 410: 583-587

6. Roska, B; Nemeth, E; Orzo, L; Werblin, FS. (2000) Three Levels of Lateral Inhibition: A Space-time Study of the Retina of the Tiger Salamander. **Journal of Neuroscience**, 20 (5): 1941-1951.

7. Roska, B; Nemeth, E; Werblin, FS. (1998) Response to change is facilitated by a three-neuron disinhibitory pathway in the tiger salamander retina. **Journal of Neuroscience**, 18(9):3451-9.